

Absorbance

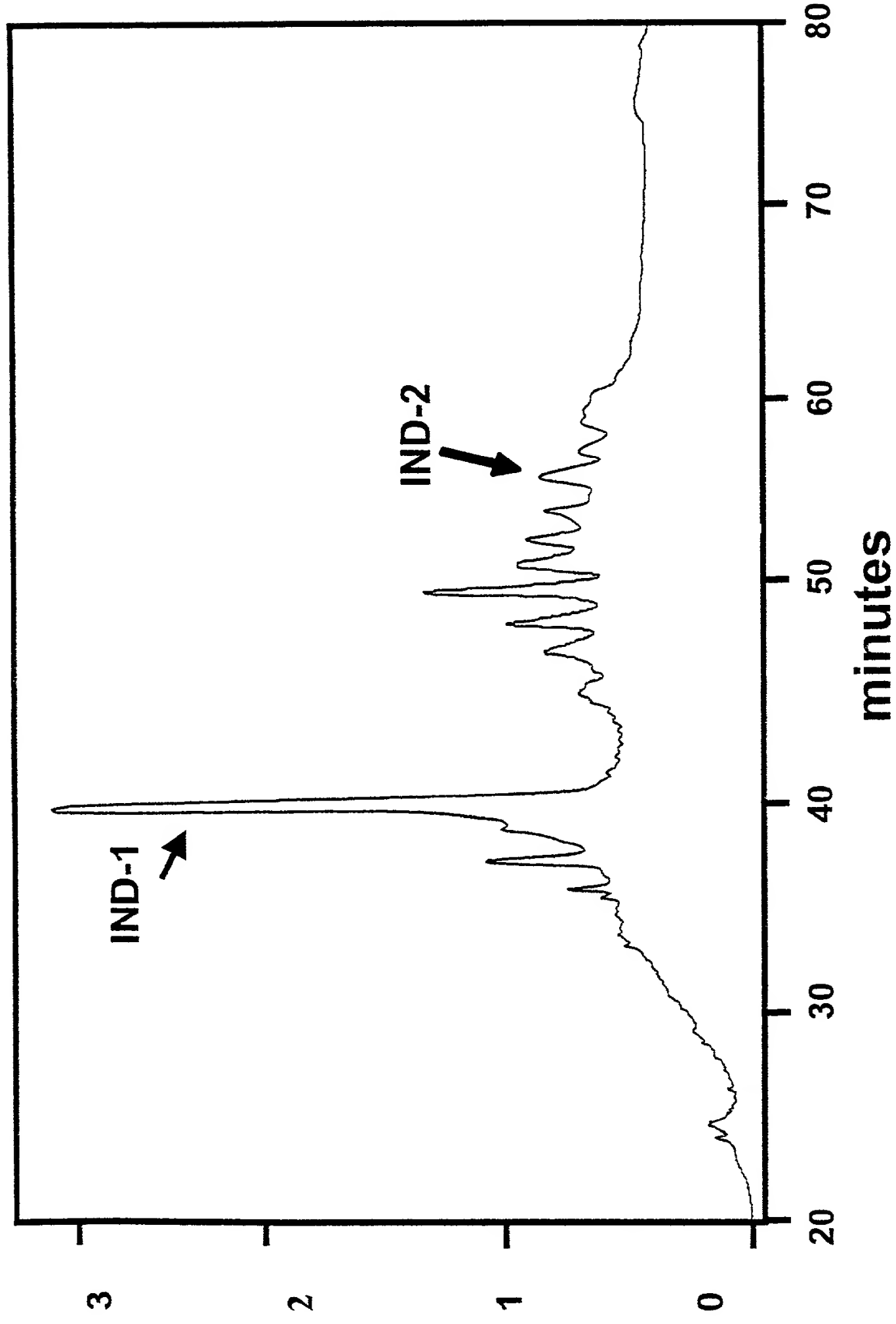


FIG. 1

IND-1
Bis (2-ethylhexyl) phthalate
MW 390.6

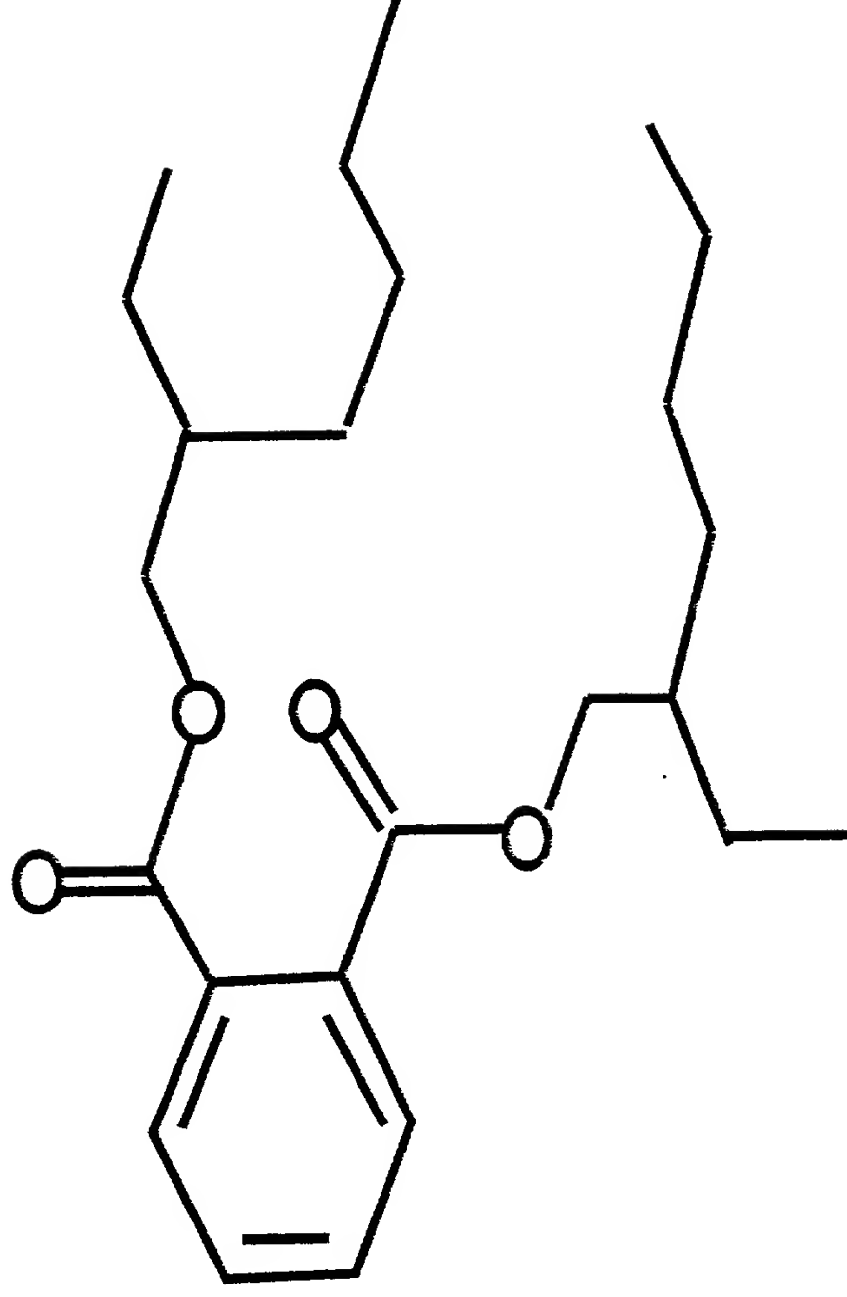
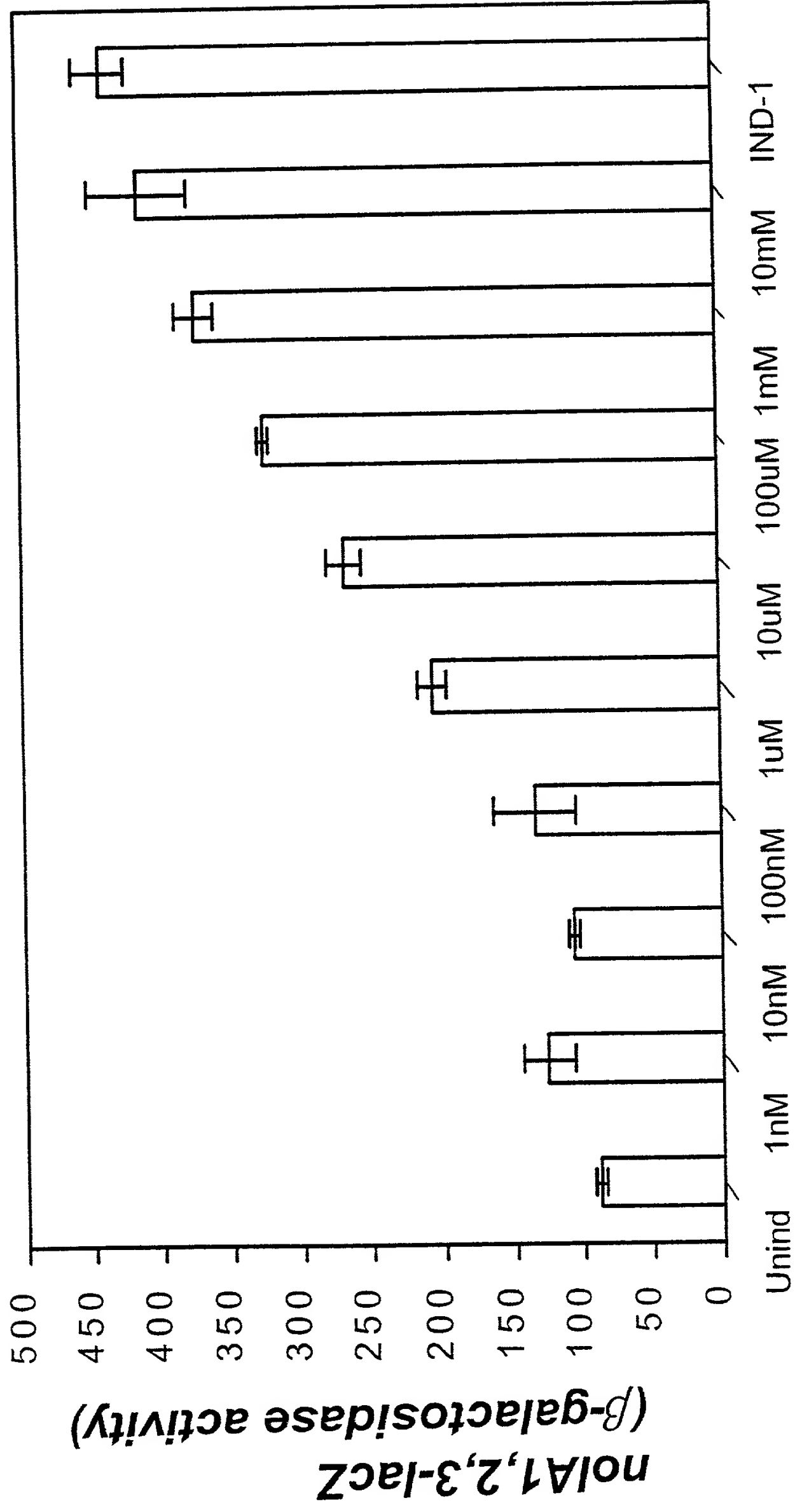


FIG. 2A



IND-1 (concentration)

FIG. 2B

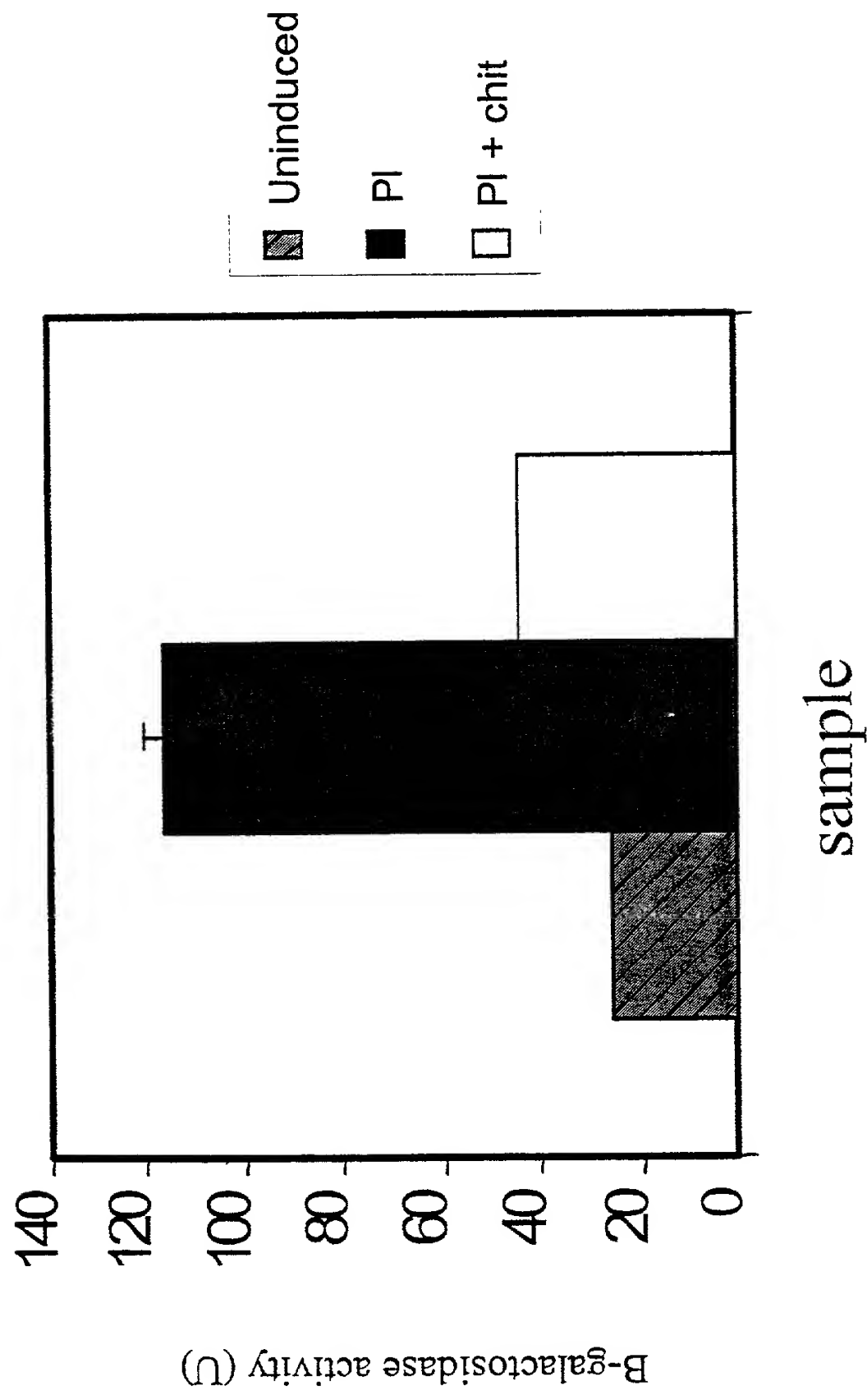


FIG. 3

FIG. 4A

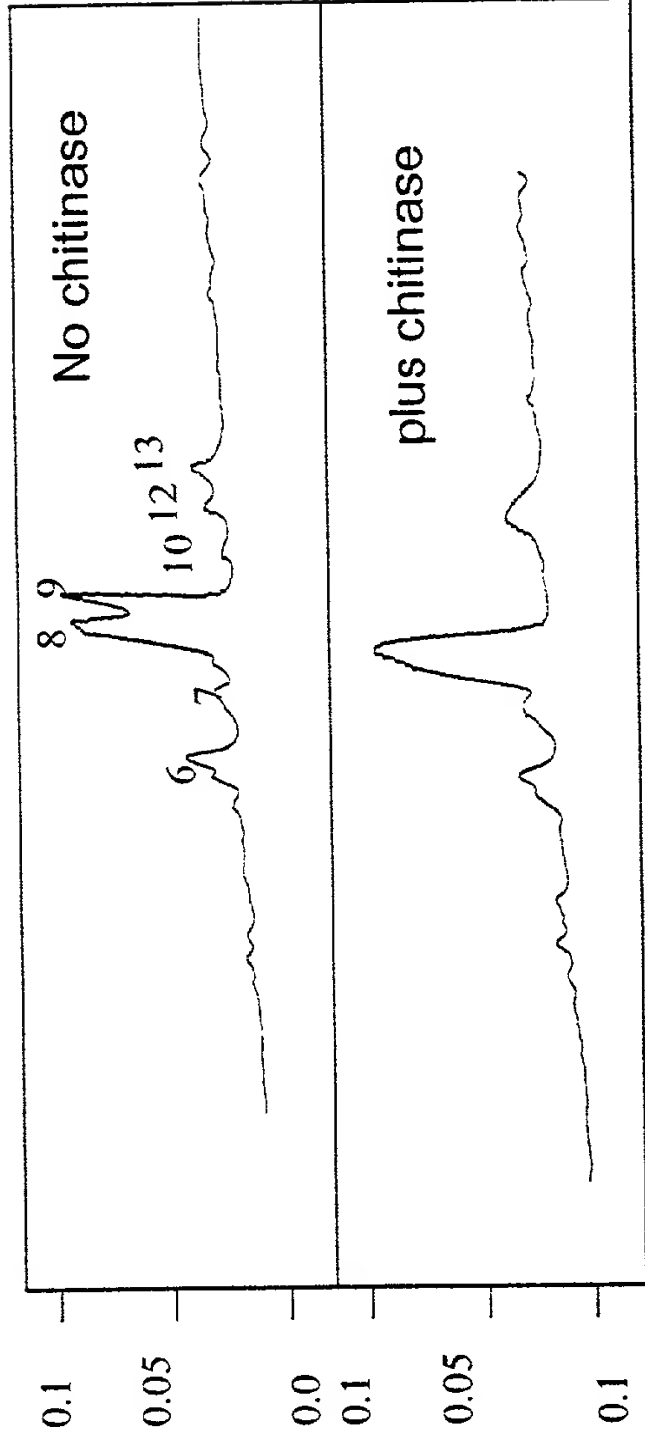
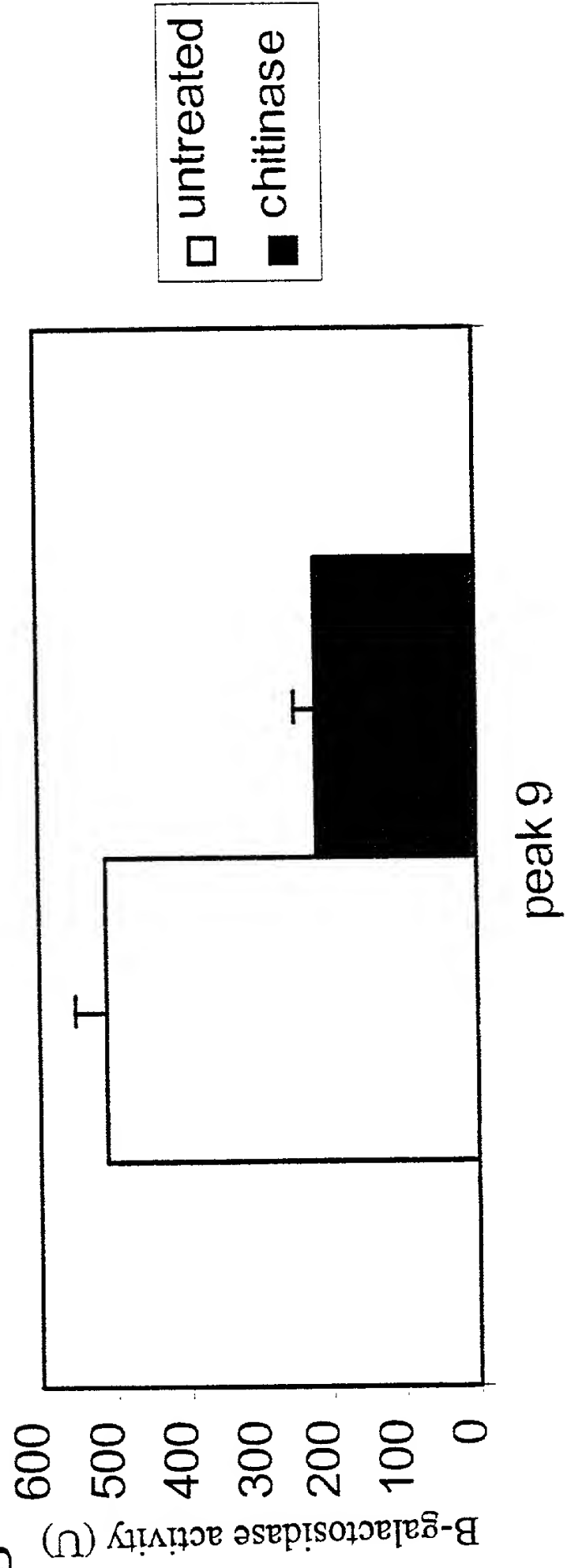


FIG. 4B



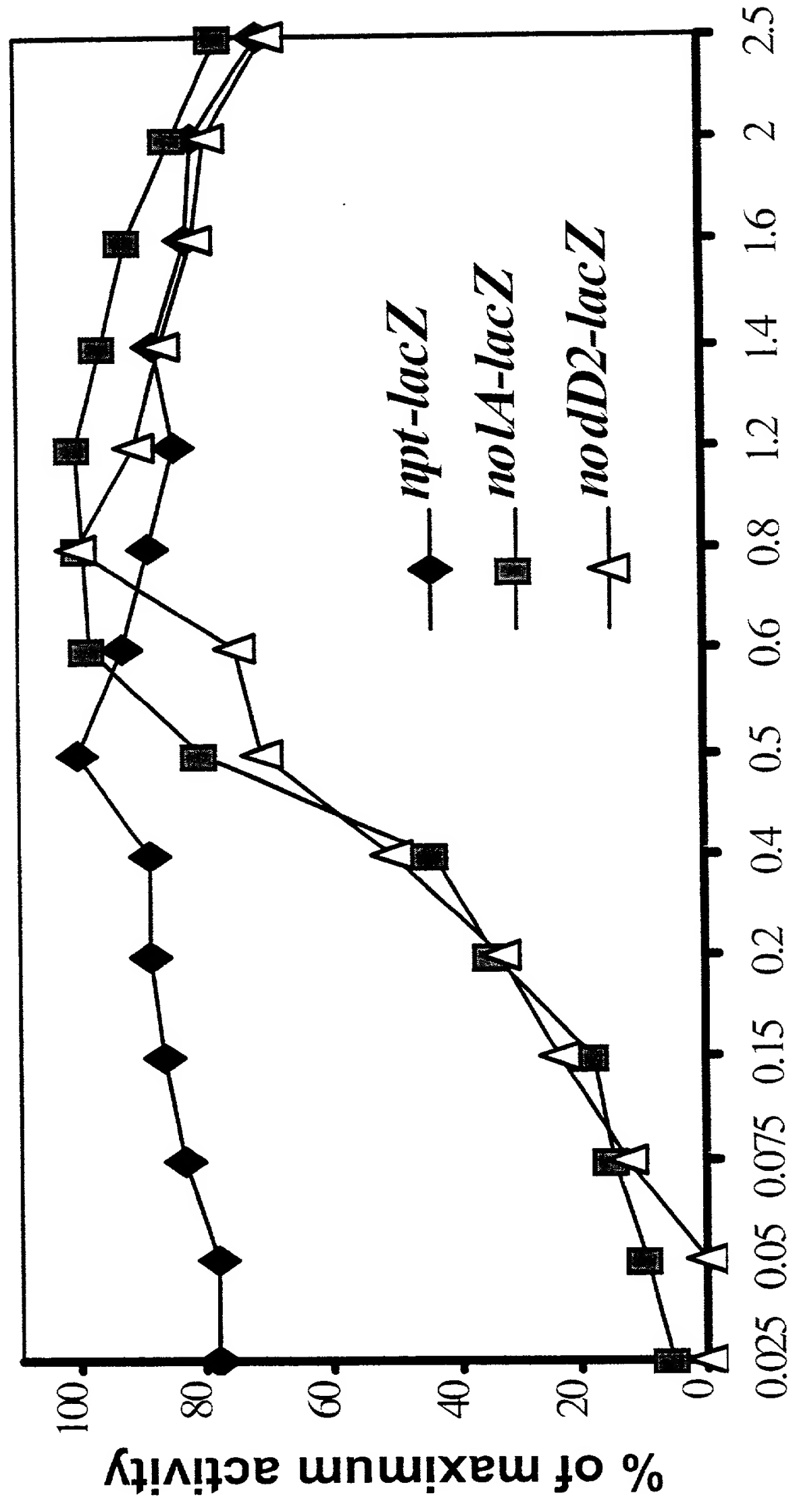
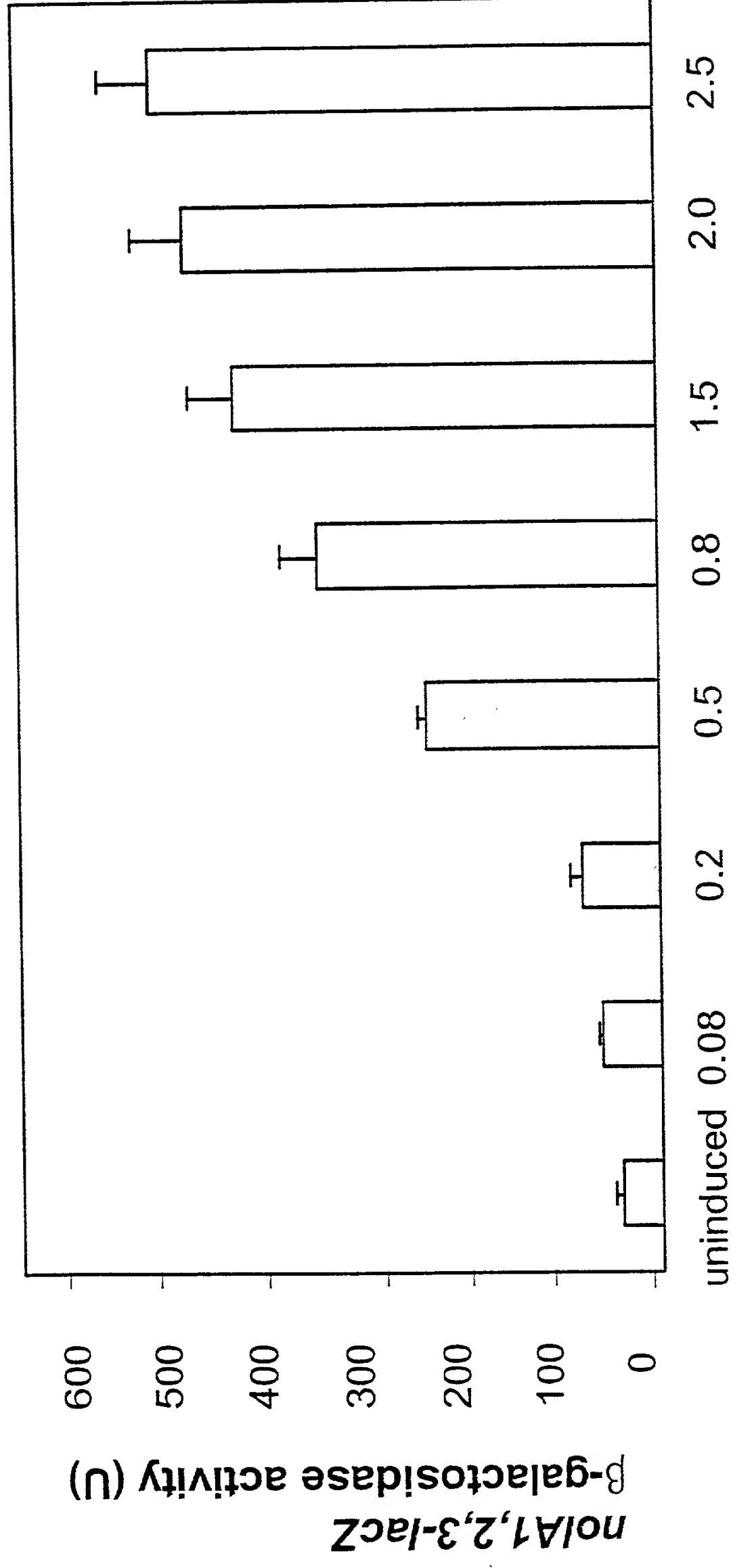


FIG. 5A



A_{600} of culture at time of inducer extraction

FIG. 5B

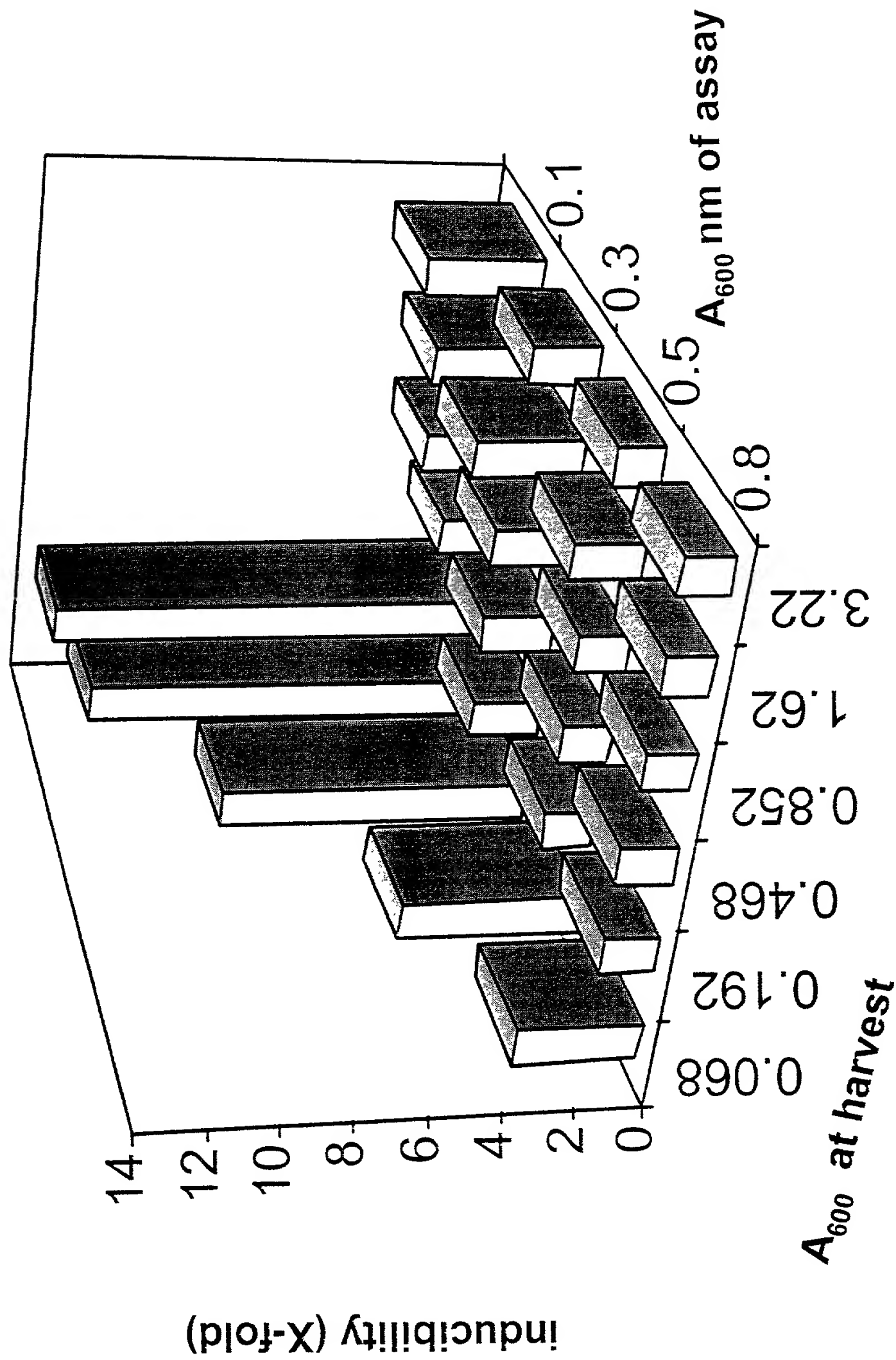
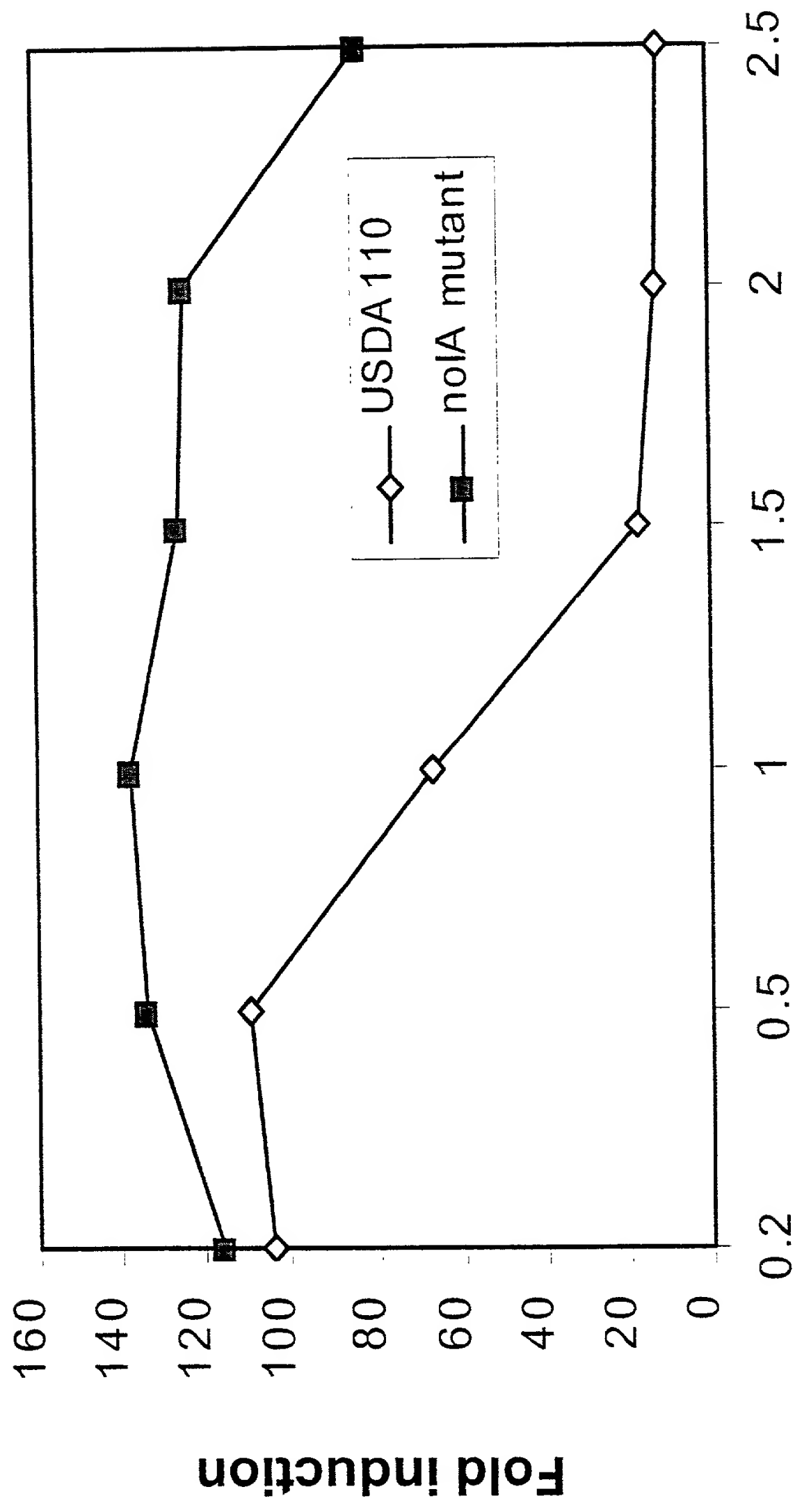


FIG. 6



Cell density (A600)

FIG. 7

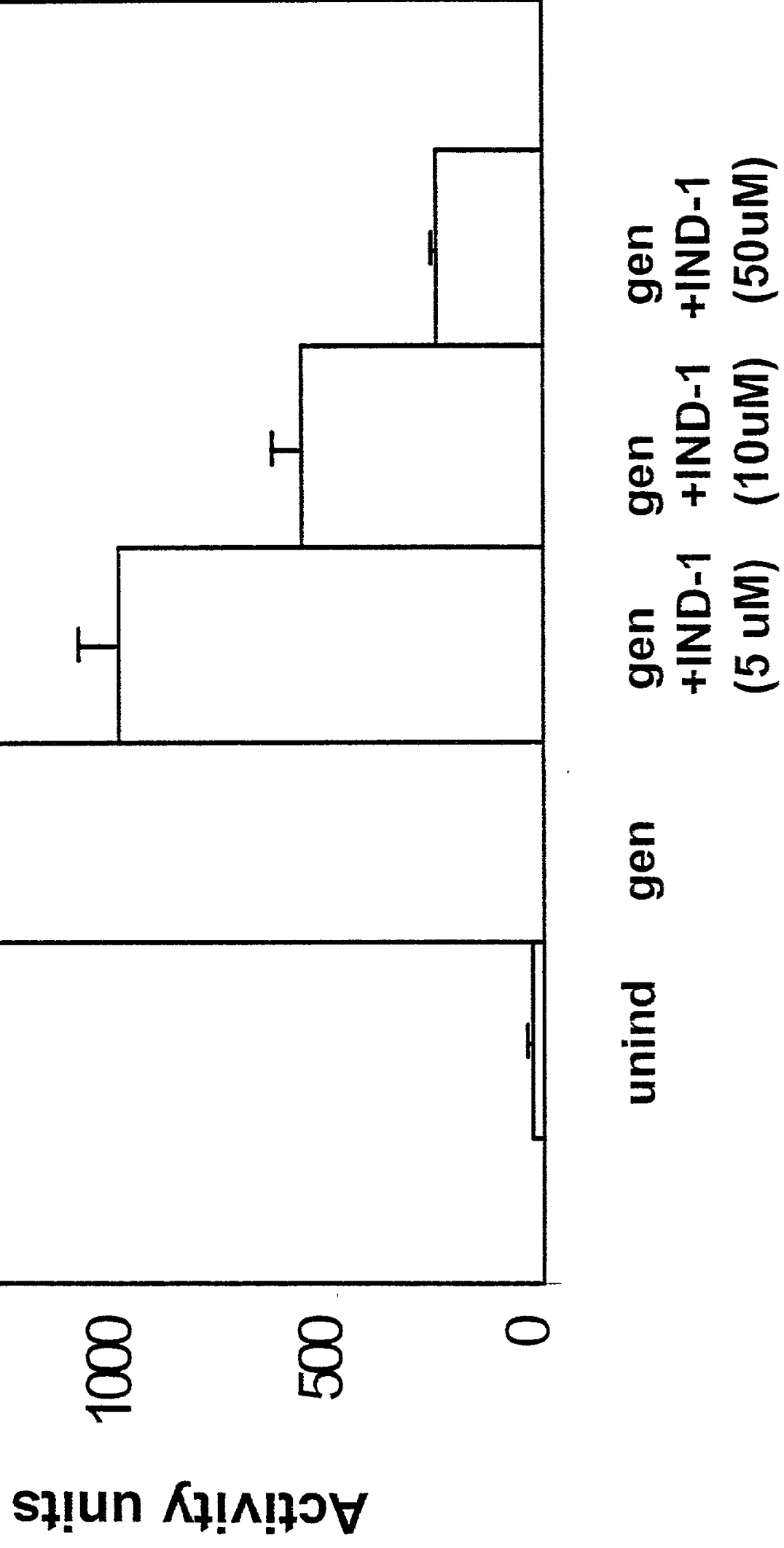
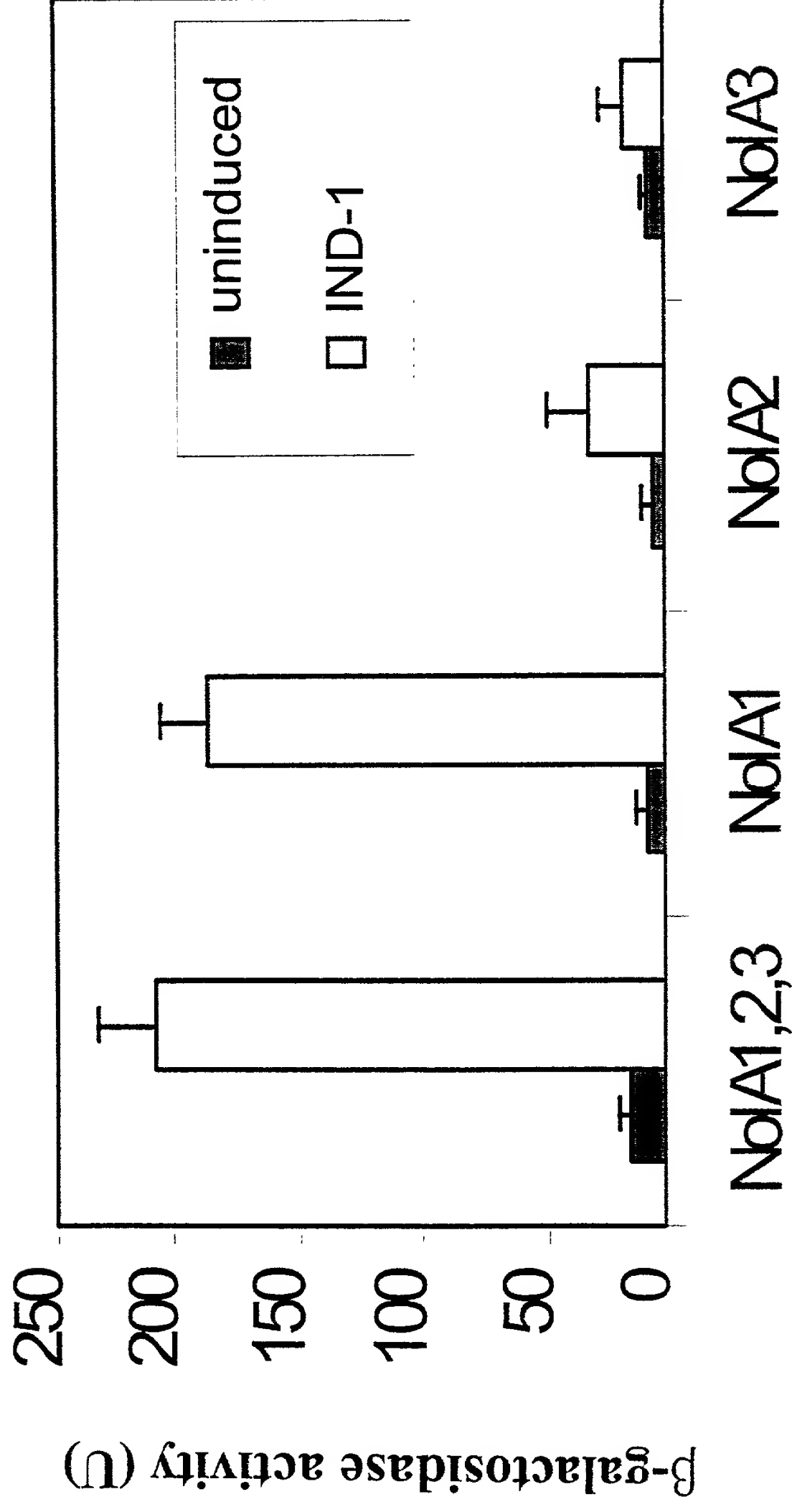


FIG. 8



nolA-lacZ fusion

FIG. 9

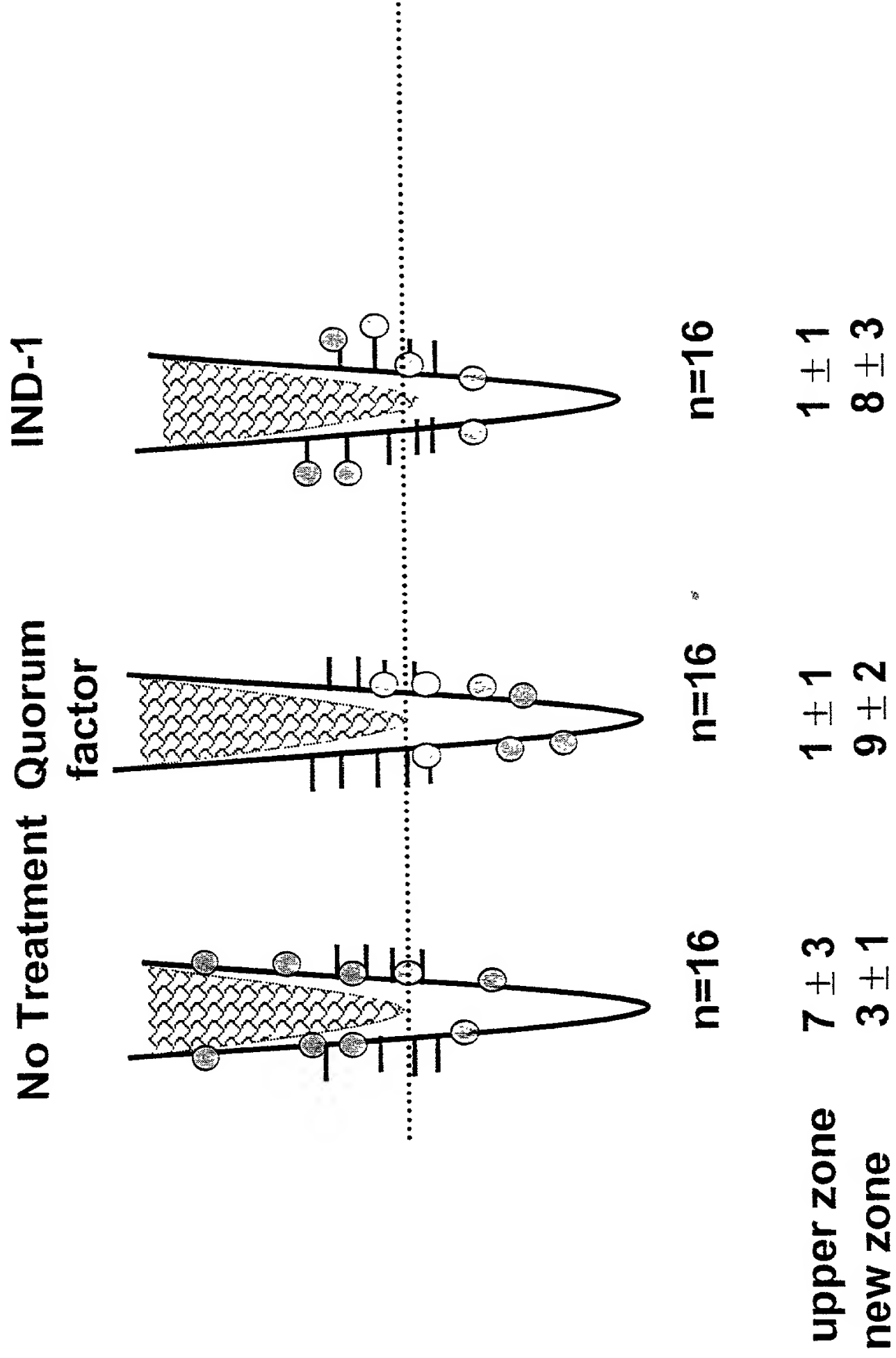


FIG. 10

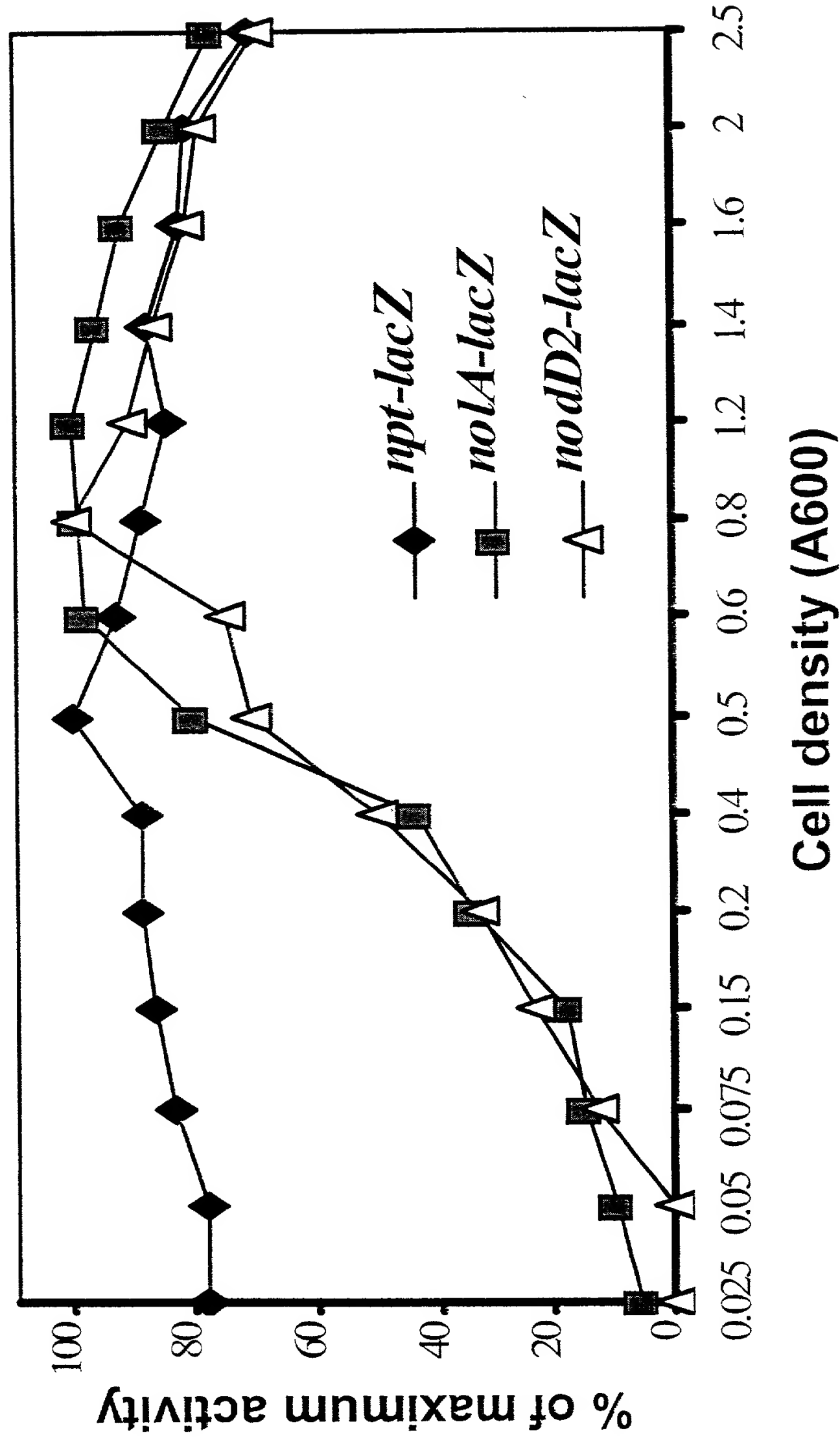
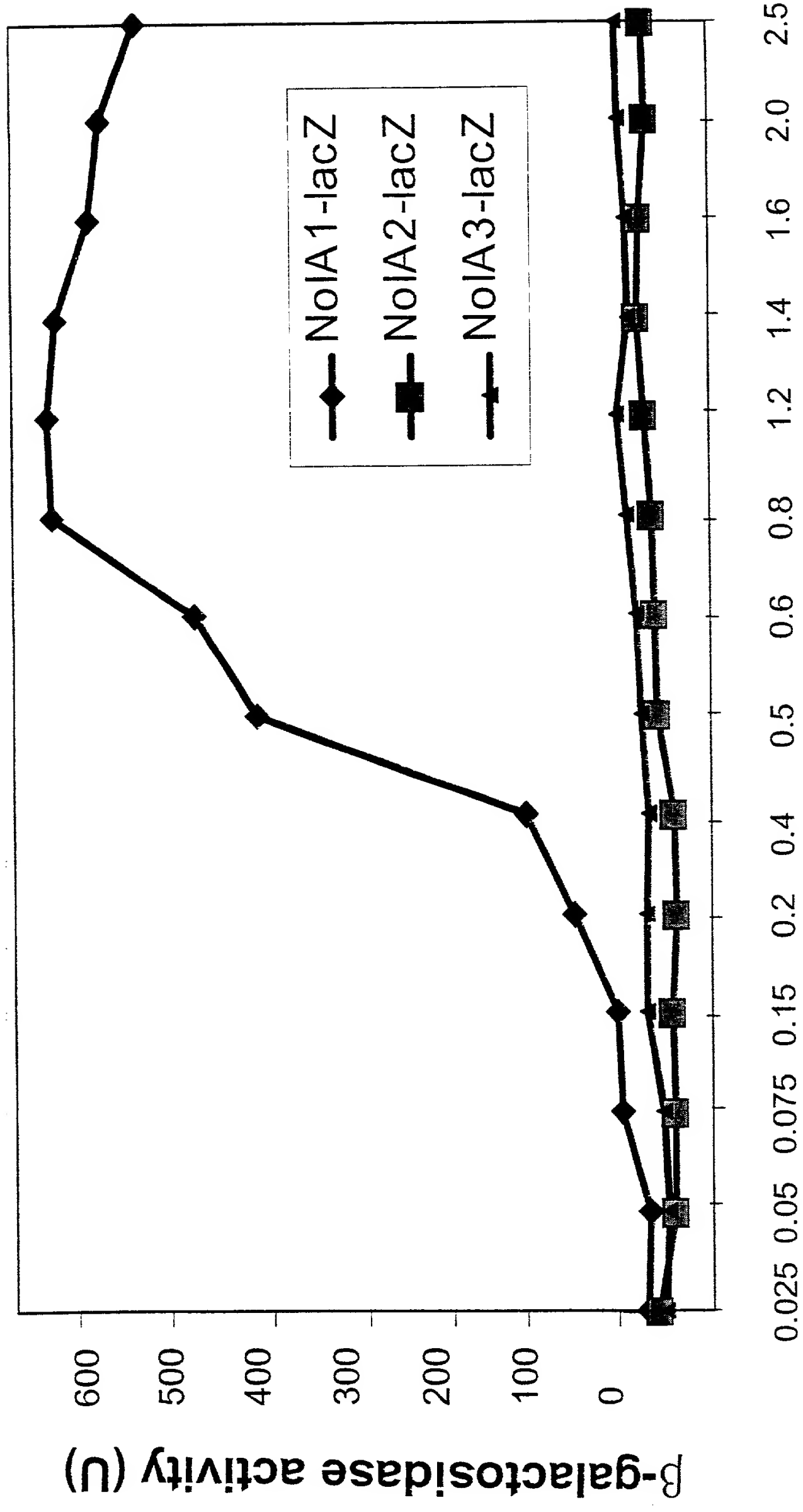
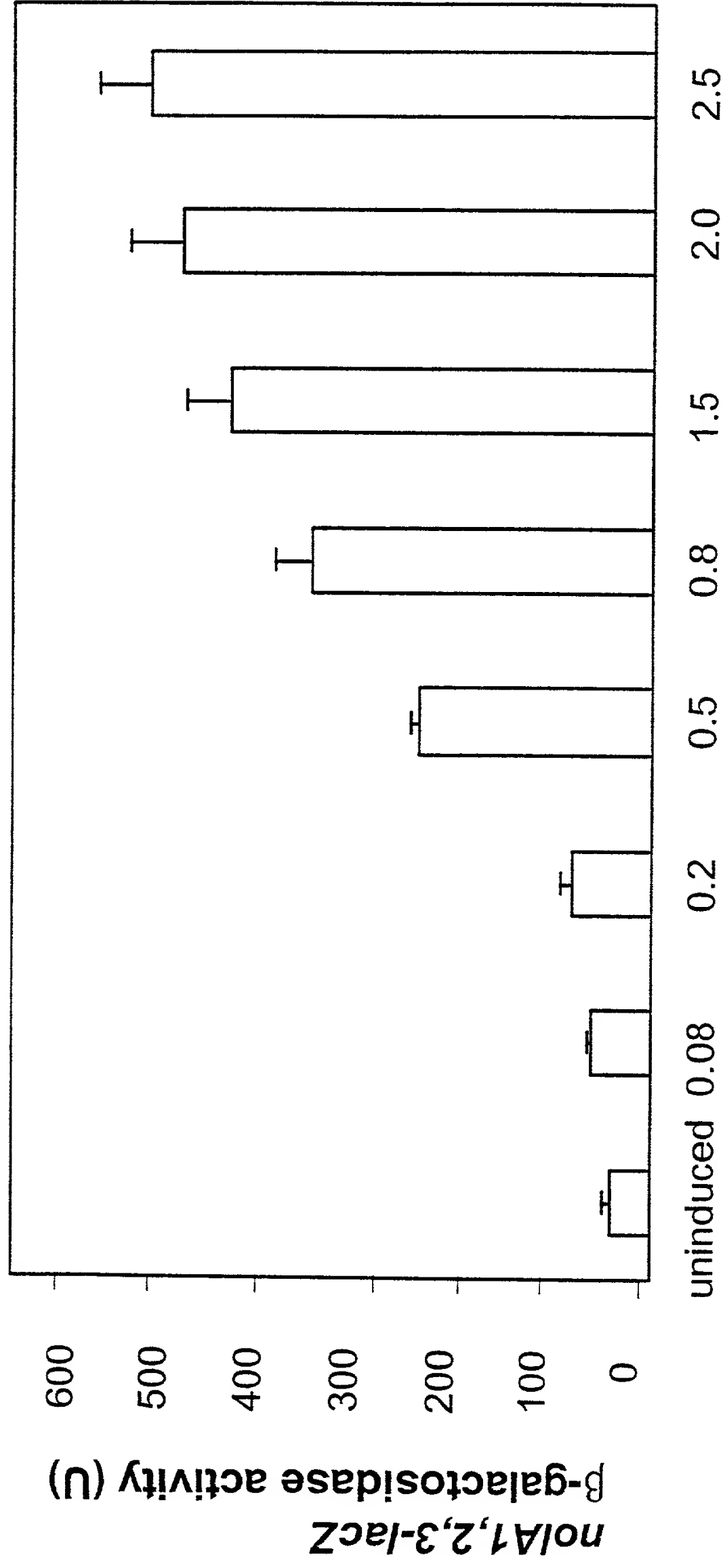


FIG. 11A



Cell density (A_{600})

FIG. 11B



A_{600} of culture at time of inducer extraction

FIG. 11C

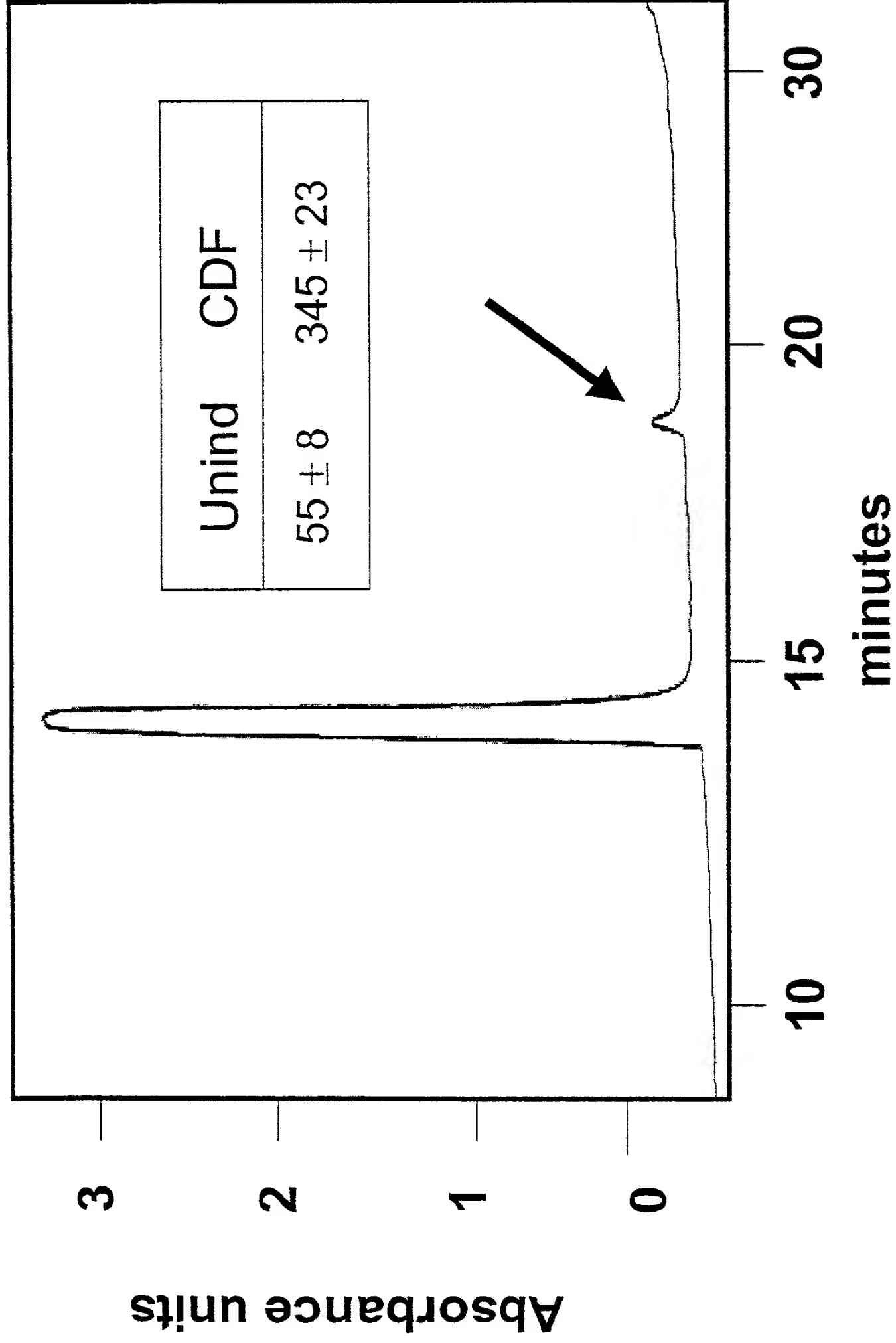
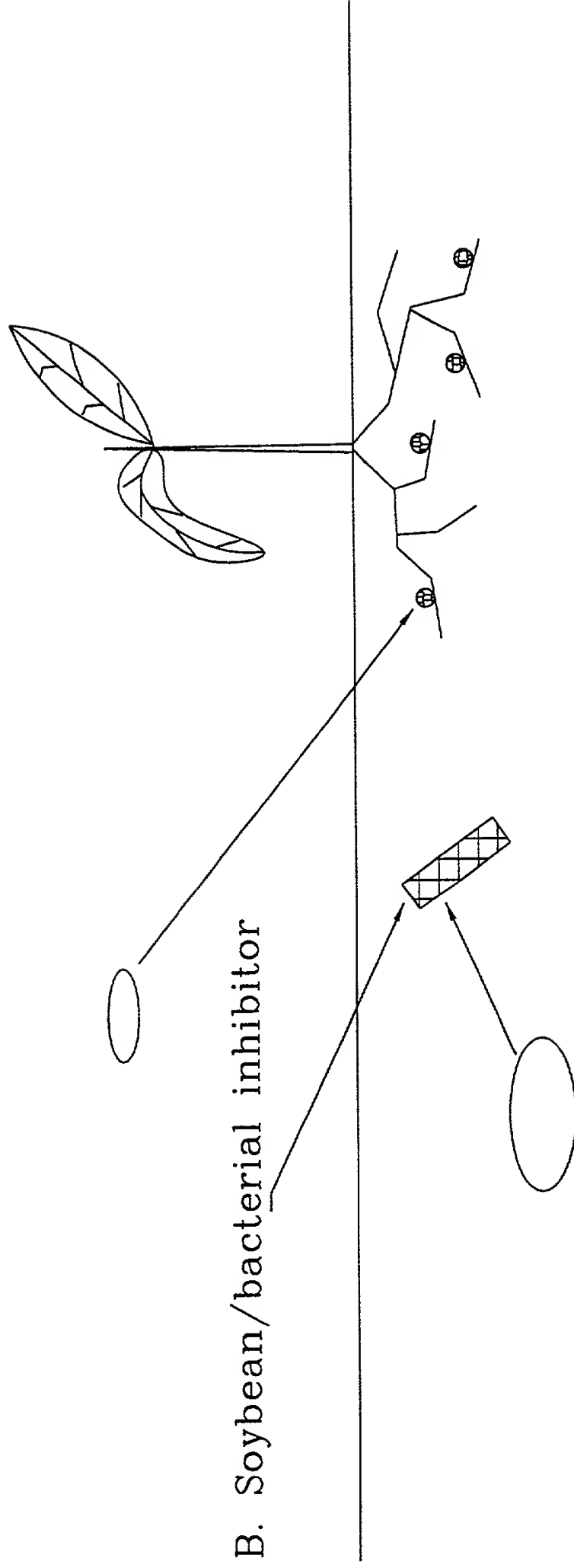


FIG. 12

Inoculant

A. Inhibitor resistant *B. japonicum* (e.g., *NolA* mutant)

B. Soybean/bacterial inhibitor



Indigenous *B. japonicum* (sensitive to inhibitor)

FIG. 13

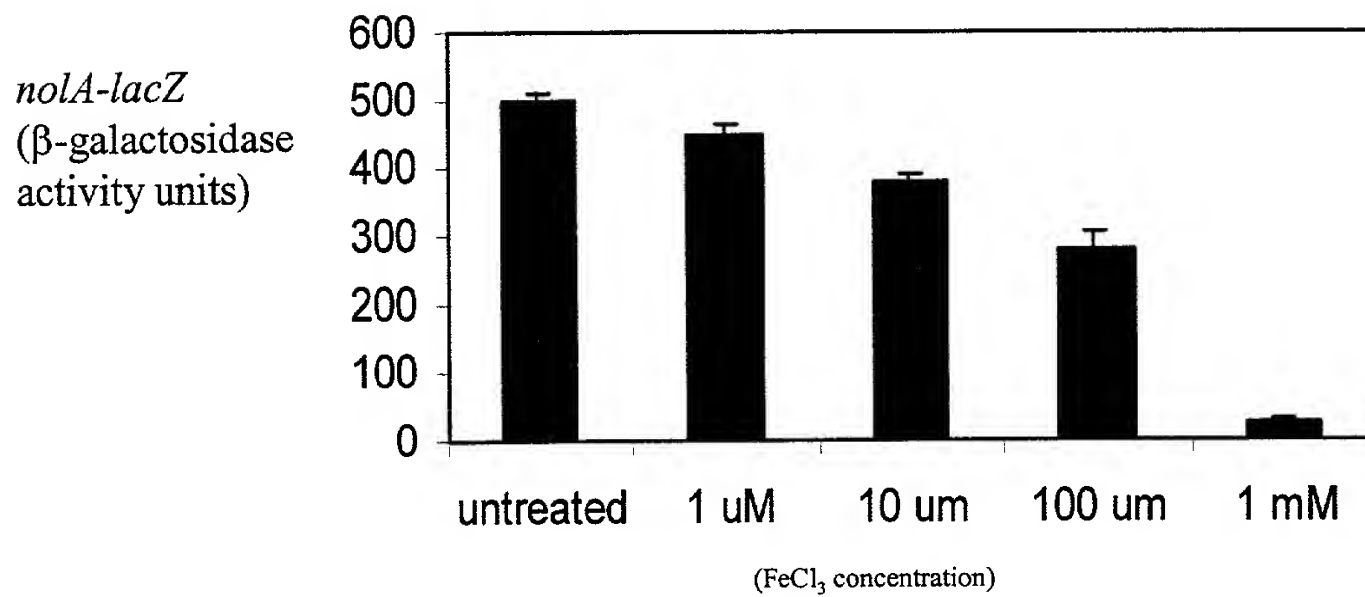


Figure 14A

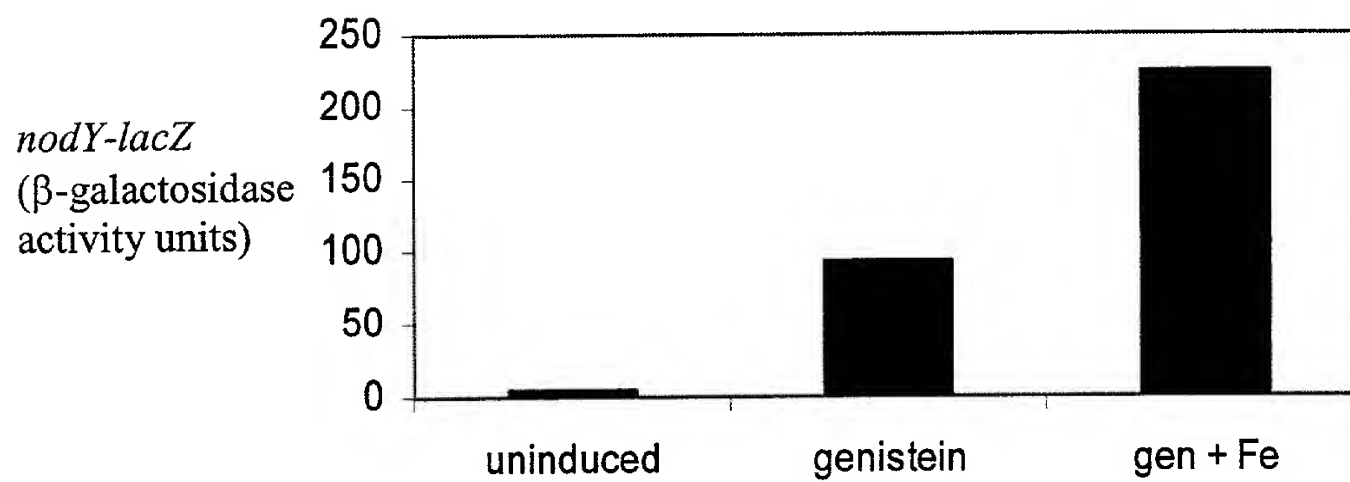


Figure 14B

RATIO OF NWSB:110	% OCCUPANCY BY NWSB MUTANT	
	Untreated	BEHP
1:10 (A)	0	11
(B)	2	0
10:1 (A)	83	95
(B)	93	92
1:1 (A)	57	78
1:1 (B)	40	74

Figure 15

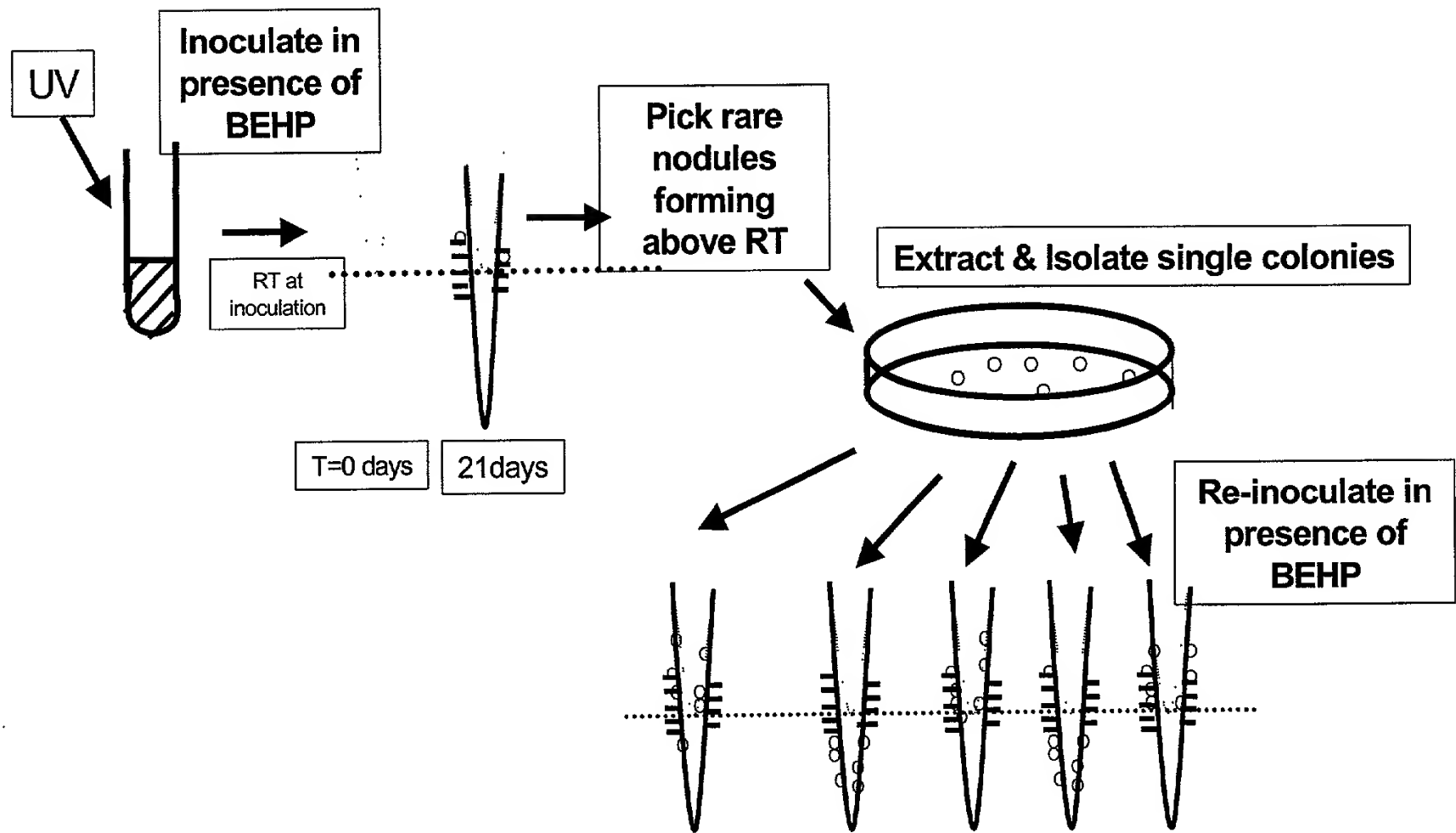


Figure 16

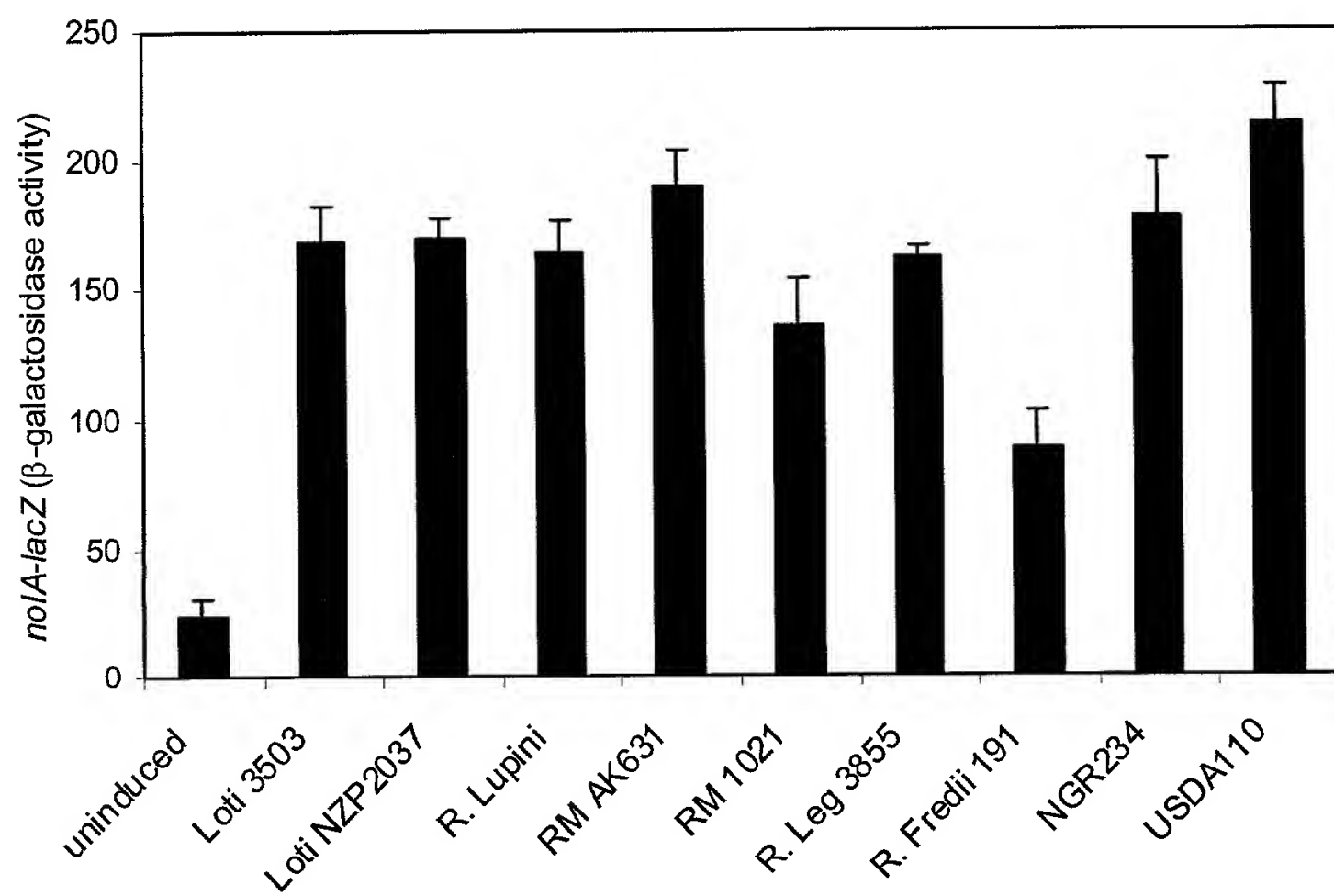


Figure 17

STRAIN	<i>NolA-lacZ</i> expression (fold induction)	+/- induction
Bradyrhizobium japonicum USDA 110	8.0	+++++
Rhizobium Loti NZP2037	3.0	++
Rhizobium lupini	2.8	++
Sinorhizobium meliloti AK631	3.5	++
Sinorhizobium meliloti 1021	2.4	+
Rhizobium leguminosarum	3.0	++
Sinorhizobium sp. NGR234	3.0	++
Pseudomonas fluorescens 5R	0.9	-
Pseudomonas fluorescens DFC50	0.8	-
Pseudomonas aeruginosa PAO1	1.0	-
Pseudomonas syringae B3A	1.1	-
Pseudomonas syringae B457	1.2	-
Pseudomonas aureofaciens Q2A7	1.0	-
Agrobacterium GV101	2.7	++
Agrobacterium LB4404	2.4	+
Marine isolate, gamma proteobacterium (Uwo.Ps)	1.2	-
Marine isolate, gamma proteobacterium (uwo.stk)	1.1	-
Marine isolate, gamma proteobacterium (uwo.mor)	0.9	-
Aeromonas caviae	1.8	-
Vibrio harveyii	2.4	-
Vibrio natriegens	1.3	-
Vibrio splendidus	2.5	-
Rhodopseudomonas palustris	2.7	++
Salmonella typhi	1.1	-
Salmonella enterditis	1.0	-
Salmonella typhi 284	1.0	-
M. smeraglitis	1.0	-

FIG. 18